

TITLE

A CYTOCHROME P450 ENZYME ASSOCIATED WITH THE SYNTHESIS OF  $\Delta^{12}$ -  
EPOXY FATTY ACIDS

ABSTRACT OF THE DISCLOSURE

5       An isolated nucleic acid fragment encoding a cytochrome P450 enzyme associated  
with the synthesis of plant  $\Delta^{12}$ -epoxy fatty acids is disclosed. The invention also relates to  
making a chimeric construct encoding all or a portion of the cytochrome P450 enzymes  
associated with the synthesis of plant  $\Delta^{12}$ -epoxy fatty acids, in sense or antisense  
orientation, wherein expression of the chimeric construct results in production of altered  
10   levels of the cytochrome P450 enzymes associated with the synthesis of plant  $\Delta^{12}$ -epoxy  
fatty acids in a transformed host cell.

15

20

25

30

35

LMC/dmm